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Anthropology and Dawkin's Early Man in Britain, and the late Mr. L. H. Morgan's writings on the North American Indians.

UNDERWOOD'S FERNS.<sup>1</sup>—Last year the first edition of this book was noticed in the NATURALIST. It is with great pleasure that we welcome the new and much enlarged edition which has just come to hand. It has been carefully revised and much new matter has been added. As now published it includes the whole of the Pteridophyta, that is, the so-called vascular cryptogams. Many new paragraphs and a chapter or two are added to the text, and considerable changes and additions have been made in the systematic portion. On pp. 34 and 35 the asexual and sexual generations are respectively called the *Pteridoid* and the *Thalloid* phases, two most excellent expressions, which ought to be introduced into usage in the books. On p. 53, in giving the names of the seven divisions or sub-kingdoms of the vegetable kingdom, the author, for the sake of uniformity, writes *Zygospora*, *Oospora*, *Carpospora*, instead of *Zygosporeæ*, *Oosporeæ*, *Carposporeæ*, which is an attempt in the right direction. The literature of the Pteridophyta is greatly extended, and appears to be pretty full. It is certainly a very valuable part of the book, as it includes, in the case of American works, not only the books, but many papers in periodicals, reports, etc.

The arrangement of the orders of Pteridophytes followed, is as follows:

Class I.—EQUISETINÆ. Orders Calamariaceæ and Equisetaceæ.

“ II.—FILICINÆ. Orders Ophioglossaceæ, Marattiaceæ and Filices.

“ III.—RHIZOCARPEÆ. Orders Marsiliaceæ and Salviniaceæ.

“ IV.—LYCOPODINÆ. Orders Lycopodiaceæ, Lepidodendraceæ, Sigillariaceæ, Selaginellaceæ and Isoetaceæ.

The important announcement is made, at the end of the volume, that the author has under preparation a Synopsis of the Hepaticæ on a plan similar to the work under review. We hope that its appearance will not be long delayed, and trust that it will prove to be as valuable a hand-book as has “Our Native Ferns.” —C. E. B.

STUDIES FROM THE BIOLOGICAL LABORATORY OF JOHNS HOPKINS UNIVERSITY.—The second number of the second volume of this valuable series is fully equal in interest to those which have preceded it. While it contains some medico-biological and physiological papers, the purely zoölogical ones are the following: List of Medusæ found at Beaufort, N. C., during the summers of 1880 and 1881, and a paper on the development of the ova in *Salpa*, by W. K. Brooks; On the origin of the so-called “test cells” in the ascidian ovum, by J. McMarrich; Some notes on the development of *Arbacia punctulata*, by H. Garman and B. P.

<sup>1</sup>*Our Native Ferns and their Allies, with synoptical descriptions of the American Pteridophyta north of Mexico.* A second and enlarged edition of *Our Native Ferns and How to Study Them.* By LUCIEN M. UNDERWOOD, Ph.D., professor of geology and botany in the Illinois Wesleyan University. Bloomington, Ill., 1882.

Colton ; On the structure and significance of some aberrant forms of lamellibranchiate gills, by K. Mitsukuri (reprinted from *Quart. Journ. Micr. Sc.*); Observations on the early developmental stages of some polychæteous Annelides, by E. B. Willson.

RECENT BOOKS AND PAMPHLETS.—Bulletin of the United States National Museum, pp. 360–415, 1882. From the department.

Proceedings of the Academy of Natural Sciences of Philadelphia, pp. 105–184, 1882. From the society.

Proceedings of the Boston Society of Natural History, Vol. XXI, Part III, October, 1881–January, 1882. From the society.

Revista Científica Mexicana, 1882. From the publishers.

Bulletin de la Société Zoologique de France pour l'année 1881. The same for 1882. From the society.

Mission Scientifique au Mexique et dans L'Amérique Centrale. Recherches Zoologiques. Troisième partie Etudes sur les Reptiles et sur les Batraciens. Par MM. Dumeril et Bocourt. Paris, 1882. 4 plates.

Paleontographica. Beiträge zur Naturgeschichte der Vorzeit. Die Saurier der unteren Dyas von Sachsen. Von Dr. H. B. Geinitz und Dr. J. V. Deichmüller. pp. 46, pl. ix. Cassel, 1882. From the authors.

Ein Beitrag zur Kenntniss fossiler Ueberreste aus der Gattung Arctomys. Von Dr. R. F. Hensel. Mit 2 Tafeln. From Dr. Torey.

Bidrag till Kännedomen af Crustaceernas Anatomi. Af I. A. Lyttkens. pl. II.

Prodromus faunæ Copepodorum parasitantium Scandinaviæ. Quem scripsit Dr. Petrus Olsson.

Quarterly Journal of the Geological Society. Vol. xxxviii, Part II. London, 1882.

Proceedings of the Royal Geographical Society, July, 1882.

Studies from the Biological Laboratory, Johns Hopkins University, Baltimore, Vol. II, No. 3, June, 1882.

Proceedings of the American Philosophical Society, January to June, 1882. From the society.

On the Origin of Jointed Structure. By G. K. Gilbert. From the author.

Fragments of the coarser anatomy of the diurnal Lepidoptera. By S. H. Scudder, 1882. Reprinted from Psyche. From the author.

U. S. Geographical Surveys west of the 100th Meridian. Capt. G. M. Wheeler in charge. Vol. III. Supplement, Geology. Report upon Geological Examinations in Southern Colorado and Northern New Mexico, 1878–1879. By J. J. Stevenson, Ph.D. In four parts and an appendix. pp. 458, pl. 4, maps. 3, 49 text cuts. Washington, 1881. From Capt. G. M. Wheeler.

Description of some Iguanodon remains indicating a new species, *I. seelyi*. By J. W. Hulke, Esq., Pres. G. S. Ext. from Quart. Jour. Geol. Soc., May, 1882. From the author.

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## GENERAL NOTES.

### BOTANY.<sup>1</sup>

NOTES ON MISTLETOES.—In a meeting of the Academy of Natural Sciences of Philadelphia, in October, 1881, Thomas Meehan, in commenting on specimens of *Phoradendron juniperum* var. *libocedri* Engelm. and *Arceuthobium occidentale* var. *abietinum* Engelm., from Nevada, noted a few facts in relation to mistletoes, which are of such interest that we transcribe them verbatim. Mr. Meehan said:

“The mistletoe of the Eastern States had a general resemblance to that of Europe, *Viscum album*; but the old genus *Vis-*

<sup>1</sup>Edited by PROF. C. E. BESSEY, Ames, Iowa.